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2611

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7-1202

O/SB/21 (modified)

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Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

<b>TRANSMITTAL FORM</b> <i>(to be used for all correspondence during pendency of filed application)</i>	0001/PTO Rev. 10/95	U.S. Department of Commerce Patent and Trademark Office	Application Number	09/932,010
			Filing Date	August 17, 2001
			First Named Inventor	Matthew Rabinowitz
			Group Art Unit Number	2611
			Examiner Name	Unassigned
Total Number of Pages in This Submission		5	Attorney Docket Number	22845-05947

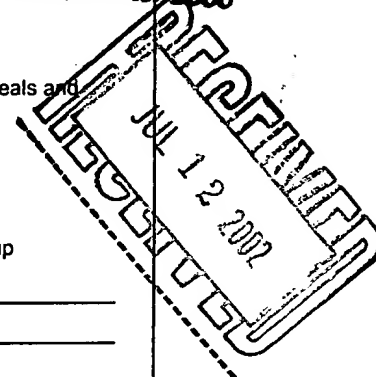
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REMARKS:

**SIGNATURE OF ATTORNEY OR AGENT**

Signature:	<i>Michael W. Farn</i>
Attorney/Reg. No.:	Michael W. Farn, Reg. No. 41,015
Dated:	JUNE 19 2002

**CERTIFICATE OF MAILING**

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## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT(S): Matthew Rabinowitz and James J. Spilker, Jr.

APPLICATION NO.: 09/932,010

COPY OF PAPERS  
ORIGINALLY FILED

FILING DATE: August 17, 2001

TITLE:



Position location using terrestrial digital video broadcast television signals

EXAMINER: Unassigned

GROUP ART UNIT: 2611

ATTY. DKT. NO.: 22845-05947

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Dated: ~~May~~ JUL 18, 2002By: Michael W. Farn  
Michael W. Farn, Reg. No. 41,015COMMISSIONER FOR PATENTS  
WASHINGTON, DC. 20231

## INFORMATION DISCLOSURE STATEMENT

Under 37 CFR §§ 1.56 and 1.97-98

SIR:

Pursuant to the provisions of 37 CFR §§ 1.56 and 1.97-98, enclosed herewith is modified form PTO-1449 listing references for consideration by the Examiner.

The filing of this Information Disclosure Statement shall not be construed as a representation regarding the completeness of the list of references, or that inclusion of a reference in this list is an admission that it is prior art or is pertinent to this application, or that a search has been made, or as an admission that the information listed is, or may be considered to be, material to patentability, or that no other material information exists, and shall not be construed as an admission against interest in any manner.

This Information Disclosure Statement is being filed:

- ☒ within three months of the filing date of the application, or date of entry into the national stage of an international application, or before the mailing date of a first office action on the merits, whichever event last occurred;
- ☐ before the mailing of a first official action after the filing of a request for continued examination (RCE) under 37 CFR § 1.114;

- ☐ after three months of the filing date of this national application or the date of entry of the national stage in an international application, or after the mailing date of the first official action on the merits, whichever event last occurred, but before the mailing date of the first to occur of either: (1) a final action under 37 CFR §1.113; or (2) an action that otherwise closes prosecution in the application, and:
  - ☐ attached hereto is the fee set forth under 37 CFR §1.17(p) for submission of this Information Disclosure Statement under 37 CFR. § 1.97(c); OR
  - ☐ Applicant certifies pursuant to 37 CFR § 1.97(e) that:
    - ☐ each item of information contained in this Information Disclosure Statement was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Statement; OR
    - ☐ no item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of the person signing this certification after making reasonable inquiry, no item of information contained in this Statement was known to any individual designated under 37 CFR § 1.56(c) more than three months prior to the filing of this Statement;
- ☐ before the payment of the issue fee but after the mailing date of the first to occur of either: (1) a final action under 37 CFR § 1.113; or (2) an action that otherwise closes prosecution in the application, and:
  - ☐ Applicant certifies pursuant to 37 CFR. § 1.97(e) that:
    - ☐ each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Statement; or
    - ☐ no item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of the person signing this certification after making reasonable inquiry, no item of information contained in this Statement was known to any


individual designated under 37 CFR § 1.56(c) more than three months prior to the filing of this Statement; AND

- ☐ attached hereto is the fee set forth under 37 CFR § 1.17(p) for submission of this Information Disclosure Statement under 37 CFR § 1.97(c); OR
- ☐ after the payment of the issue fee. Applicant request that the information contained in this Information Disclosure Statement be placed in the file according to 37 CFR § 1.97(i), although the information may not be considered by the USPTO.
- ☒ This application relies, under 35 U.S.C. § 120, on the earlier filing date of prior application No. 09/887,158, filed on June 21, 2001, and the references cited therein are hereby referenced, but are not required to be provided in this application under 37 CFR § 1.98(d).
- ☐ Each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application, and the communication was not received by any individual designated in 37 CFR § 1.56(c) more than thirty days prior to the filing of this Information Disclosure Statement. 37 CFR § 1.704(d).
- ☒ Applicant submits that no fee is required for the consideration of this Information Disclosure Statement.

Consideration of the listed references and favorable action are solicited.

Respectfully submitted,  
MATTHEW RABINOWITZ et al.

Dated: ~~May~~ JUNE 8, 2002

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<b>FORM PTO-1449</b> (REV. 6-89)	U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office	Attorney's Docket No. 22845-05947	Serial No. 09/932,010
<b>INFORMATION DISCLOSURE CITATION</b>  (Use several sheets if necessary)		Applicant Matthew Rabinowitz et al.	
		Filing Date August 17, 2001	Group Art Unit 2611

## U.S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
		5,045,861	09/03/91	Duffett-Smith	342	457	5,045,861
		5,510,801	04/23/96	Engelbrecht et al.	342	457	5,510,801
		5,920,284	07/06/99	Victor	342	357.01	5,920,284
		6,078,284	06/20/00	Levanon	342	357.16	6,078,284
		6,094,168	07/25/00	Duffett-Smith et al.	342	463	6,094,168
		6,107,959	08/22/00	Levanon	342	357	6,107,959
		6,137,441	10/24/00	Dai et al.	342	357.16	6,137,441
					<div> <div>RECEIVED</div> <div>JUL 03 2002</div> <div>Technology Center 2600</div> </div>		

## FOREIGN PATENT DOCUMENTS

[illegible]

**OTHER DOCUMENTS** (Including Author, Title, Date, Pertinent Pages, Etc.)

	Parkinson, B.W., et al., "Autonomous GPS Integrity Monitoring Using the Pseudorange Residual," <i>Journal of the Institute of Navigation</i> (1988), Vol. 35, No. 2, pages 255-274.
	Rabinowitz, M., "A Differential Carrier Phase Navigation System Combining GPS with Low Earth Orbit Satellites for Rapid Resolution of Integer Cycle Ambiguities," <i>PhD Thesis for Department of Electrical Engineering, Stanford University</i> (Dec. 2000), pages 59-73.
	Spilker, Jr., J.J., Jr., "Fundamentals of Signal Tracking Theory," <i>Global Positioning System: Theory and Applications</i> (1994), Vol. 1, Chapter 7, pages 245-327.
	Van Dierendonck, A.J., "GPS Receivers," <i>Global Positioning System: Theory and Applications</i> (1995), Vol. 1, Chapter 8, pages 329-407.

**EXAMINER**

DATE CONSIDERED

**EXAMINER:** Initial if references considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered.

**Include copy of this form with next communication to applicant.**